THIN FILM CRYSTALLINE SILICON SOLAR CELL

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Inventor(s):

FUKUI KENJI; SHINRAKU KOUICHIROU; SHIROMA HIDEKI; OKUI HIROKI

Applicant(s):

KYOCERA CORP

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- International: H

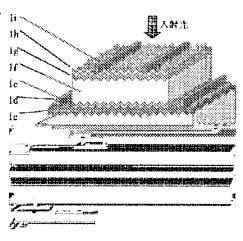
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Abstract of JP 2002111017 (A)

PROBLEM TO BE SOLVED: To solve the problems of characteristic deterioration due to a short circuit or the like caused by a ruggedness, not obtaining light confinement effects and of a low short circuiting current density. SOLUTION: A thin film crystalline silicon solar cell comprises a metal film 1c to become the rear electrode, silicon semiconductor films 1e, 1f and 1g having a semiconductor junction, a transparent conductive film 1h, and a metal film 1i to become a front electrode laminated on a board 1a. In this case, the surface of the board 1a has a fine rugged structure 1b, and a curve for connecting vertexes of the protrusions becomes a recess shape. A distance between vertexes of the adjacent protrusions is 0.01 to 5 &mu m.; A difference between high and low heights between a lowermost part and the vertex of the curve for connecting the vertexes of the adjacent protrusions is 0.01 to 1 &mu m.



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